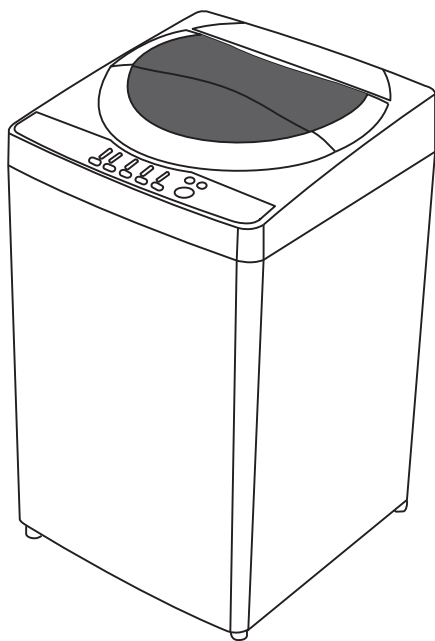


## AW-F820SM



















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Thank you for purchasing TOSHIBA Fully Automatic Washing Machine.  
Please read this manual carefully in order to operate the machine properly and safety.  
Please keep this manual for future reference.










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## ⚠ WARNING

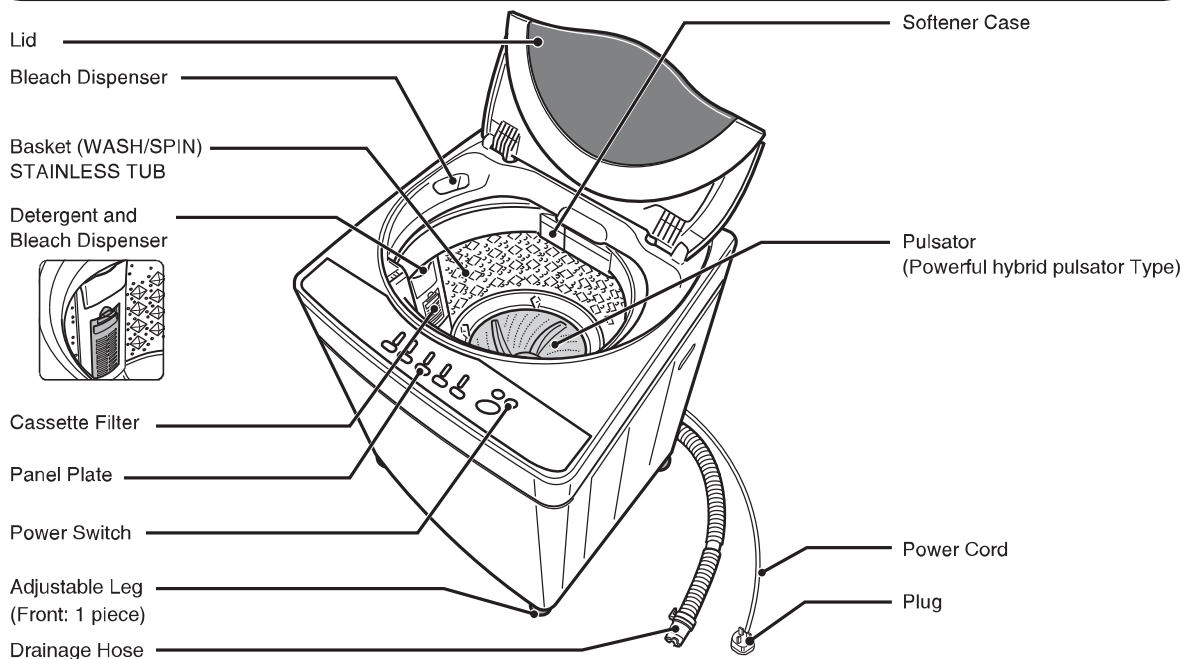
<b>⚠ WARNING:</b> This indicates an important item which incorrect operation may lead to injury or death.	
 DO NOT TOUCH	<ul style="list-style-type: none"> <li>■ <b>Never attempt to touch laundry in the spin basket until the motion of the basket stops completely.</b> Laundry in the basket may become wrapped around the hand, even when the basket is only moving slowly. Use particular caution when children are present.</li> </ul> 
 OUT OF CHILD	<ul style="list-style-type: none"> <li>■ <b>Never operate washing machine by young children and infirm person.</b> This washing machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been adequately supervised by a responsible person to ensure that they can use the washing machine safely.</li> <li>■ <b>Children should be supervised to ensure that they do not play with the washing machine.</b></li> <li>■ <b>Never allow children to look into the basket or play around the washing machine.</b></li> <li>■ <b>Do not place the stand or box near the washing machine.</b> Children may fall into the basket and get injured or drowned.</li> </ul> 
 DO NOT MODIFY	<ul style="list-style-type: none"> <li>■ <b>Never disassemble or modify the machine.</b> It may cause fire or electrical shock or malfunctions that lead to injuries. Consult the store you bought the machine.</li> </ul>
 ELECTRIC SHOCK	<ul style="list-style-type: none"> <li>■ <b>Use proper power source indicated in the rating label of the machine.</b> It may cause fire or electrical shock. Failure to use a proper power source may result in the electrical outlet becoming excessively hot, leading to fire.</li> </ul>
 UNPLUG POWER	<ul style="list-style-type: none"> <li>■ <b>Unplug the power cord from the electrical outlet before attempting to cleaning or maintenance the washing machine.</b></li> </ul>
 DO NOT WET HAND	<ul style="list-style-type: none"> <li>■ <b>Do not insert or pull the power plug with wet hands.</b> It may cause electrical shock or malfunctions that lead to injuries.</li> </ul>
 ELECTRIC SHOCK	<ul style="list-style-type: none"> <li>■ <b>Never use damaged electrical cords or plugs or loose socket.</b> It may cause electrical shock or malfunctions that lead to injuries or fire.</li> </ul>
 DO NOT DISASSEMBLE AND REPAIR	<ul style="list-style-type: none"> <li>■ <b>Do not damage the power cord.</b> Do not attempt to damage, cut, or modify the power cord, or subject it to excessive bending, pulling, twisting, or binding. Also, do not yank the metal portion, place heavy objects on the power cord, or pinch the power cord. Doing so may damage the power cord, resulting in fire or electrical shock.</li> <li>■ <b>If the power cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.</b></li> </ul>
 DO NOT USE WET PLACE	<ul style="list-style-type: none"> <li>■ <b>Do not install the washing machine in highly humid place.</b></li> <li>■ <b>Do not install in a bathroom or in exposed area to the rain.</b> Doing so may result in electrical shock or short circuit.</li> </ul>
 DO NOT SPLASH WATER	<ul style="list-style-type: none"> <li>■ <b>Do not allow water to come into direct contact with the various parts of the outer body.</b> Doing so may result in electrical shock or short circuit.</li> </ul>
 AVOID INFLAMMABLE	<ul style="list-style-type: none"> <li>■ <b>Do not place flammable materials in the basket.</b> Do not put any kerosene, gasoline, benzene, thinners, alcohol, other flammable materials, or the laundry soaked with such materials in the basket. It can cause explosion or fire.</li> </ul>
 REMOVE DUST	<ul style="list-style-type: none"> <li>■ <b>Wipe away off the dust or grime which attached to surface on pin of the plug.</b> The dust or grime may cause fire.</li> </ul>
 AVOID INFLAMMABLE	<ul style="list-style-type: none"> <li>■ <b>Do not place a fire source such as a candle or cigarette near the washing machine.</b> It may cause fire.</li> </ul>
 INSTALL CAREFULLY	<ul style="list-style-type: none"> <li>■ <b>Make sure that water drains properly.</b> Using the washing machine with faulty drainage may cause water to back up within the machine, leading to electrical shock or fire.</li> </ul>

## ! CAUTION

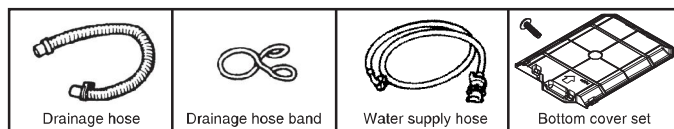
**! CAUTION:** This indicates an important item which incorrect operation may lead to injury or damages to the product.

 DO NOT PULL	<ul style="list-style-type: none"> <li>■ <b>Do not pull the power cord when unplug the appliance.</b> Hold the plug body to unplug. It may cause electrical shock or malfunctions that lead to injuries.</li> </ul>
 DO NOT USE	<ul style="list-style-type: none"> <li>■ <b>Do not connect to the hot water supply.</b></li> <li>■ <b>Do not use water with temperatures over 50°C.</b> Water that is too hot may cause malfunctions and deformation of the machine, which may result in electrical shock.</li> </ul>
 DO NOT WASH	<ul style="list-style-type: none"> <li>■ <b>Do not wash or spin extraction the mats, waterproof suites such as raincoats, fishing suite (jackets and pants) ski suite, sleeping bags etc.</b> It will cause abnormal vibration and damage while in spin extracting.</li> </ul>
 DO NOT CLIMB	<ul style="list-style-type: none"> <li>■ <b>Do not climb or place heavy objects on the washing machine.</b> Doing so may result in injury due to bending or breakage.</li> </ul>
 UNPLUG POWER	<ul style="list-style-type: none"> <li>■ <b>Pull out the plug if you do not plan to use the machine for a long time.</b> Failure to do so may result in electrical shock or shorts due to deterioration of the insulation.</li> </ul>
 DANGER HAND	<ul style="list-style-type: none"> <li>■ <b>Do not place the hands or other objects under the washing machine while in operation.</b> Moving parts may cause injury.</li> </ul>
 WATER LEAKAGE	<ul style="list-style-type: none"> <li>■ <b>Before use, make sure the faucet is open, and the connection with water inlet hose is not loose or leakage water.</b> Looseness of hose nut, hose connections, water inlet valve or other areas may cause water leakage or other damage.</li> </ul>
 INSTALL CAREFULLY	<ul style="list-style-type: none"> <li>■ <b>The bottom ventilation of washing machine must not be obstructed by carpet when the washing machine is installed on a carpet floor.</b></li> </ul>
 STOP OPERATED	<ul style="list-style-type: none"> <li>■ <b>During the spin extracting, if the spin basket does not stop rotation completely within 15 seconds after opened the lid. Please stop operated the washing machine immediately and contact to service dealer for repairs.</b></li> </ul>

## DESCRIPTION OF PARTS



### Accessories



# DESCRIPTION AND OPERATION OF PANEL PARTS

## "TUB CLEANING" Indicator

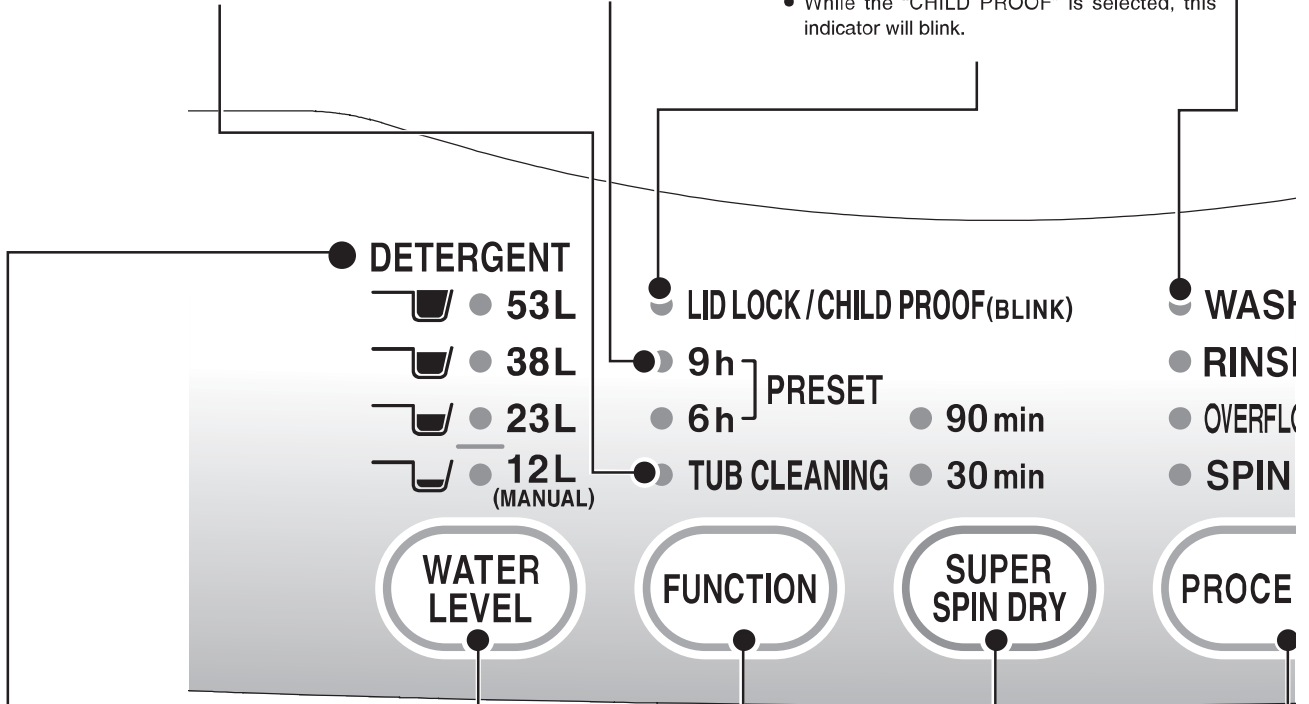
- When the "TUB CLEANING" is selected, this indicator will light up.

## "PRESET" Indicator

- You can preset the time of all washing process except delicate course.

## "LID LOCK/CHILD PROOF" Indicator

- While the "LID LOCK" is operated, this indicator will light up.
- While the "CHILD PROOF" is selected, this indicator will blink.




## "WATER LEVEL" Button

- The water level indicator is flashing when the water has been supplied and it will light up once the water is at the set level.

### Automatic Mode

- The water level is set linearly by adjusting to the washing volume. If the water level is assigned at the point with no particular indication, then the nearest level will light up.
- If there is some water in the basket before the operation, the indicator at the highest level will light up.

### Setting the button

- Press the  button to choose the water level. When the "Water level" is selected, the indicator will light up.
- While the water is flowing into the basket, the indicator at "WATER LEVEL" will flashing.

## "SUPER SPIN DRY" Button

- Timing drying operates based on selected time period.
- When pressing this button, the indicator will light up until the selected time period ends. The indicator goes out according to the remaining operation time.
- You can select 90 min or 30 min.

## "FUNCTION" Button

- You can select PRESET (9h or 6h) or TUB CLEANING.

## "DETERGENT" Indicator

- When this indicator light up, the indicator shows the recommend amount of detergent.

## "DETERGENT" Guide

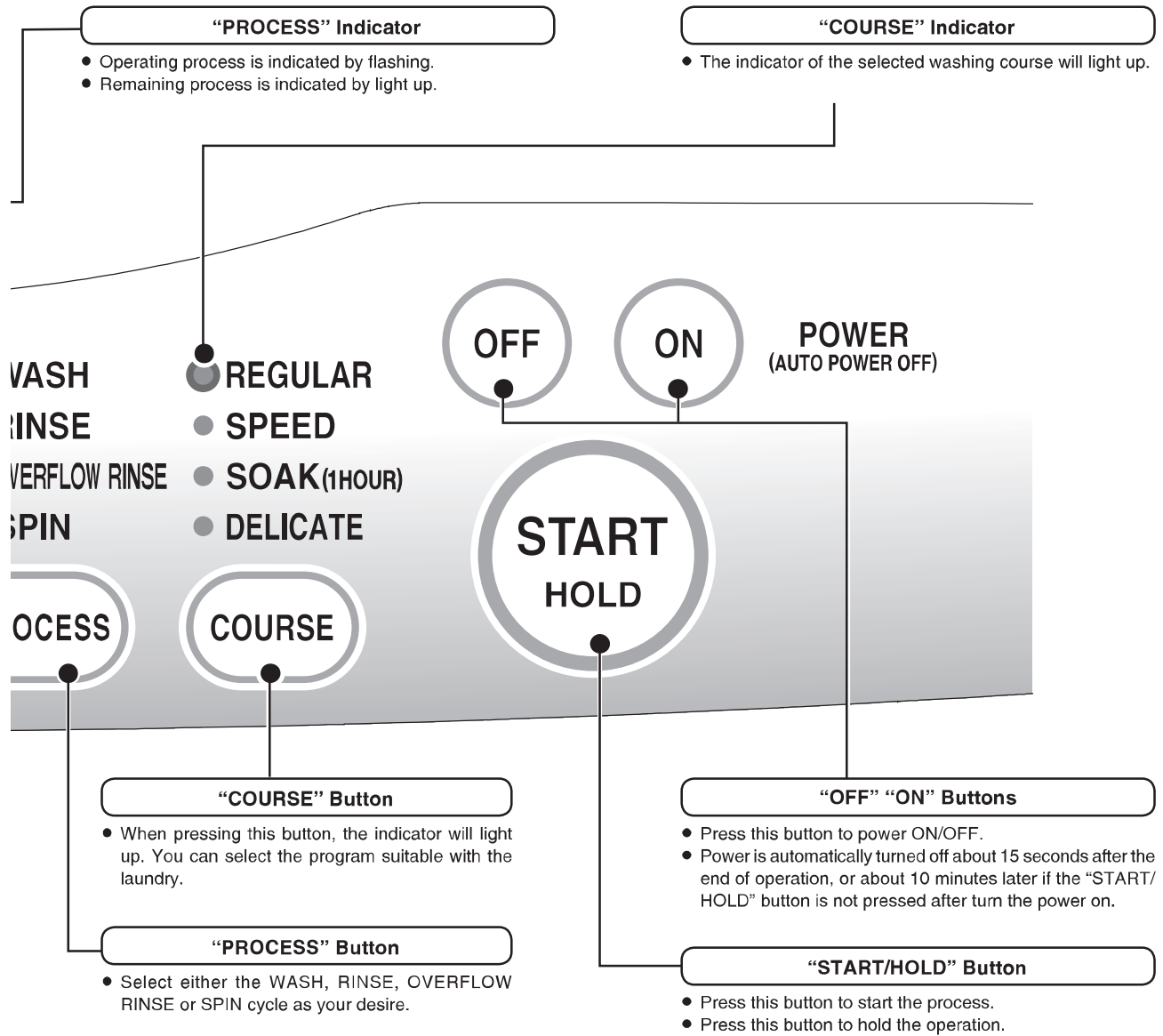
- The amount of supply using the measure spoon accompanying the compact detergent is indicator.



One spoonful of detergent denotes about 53 L of water.

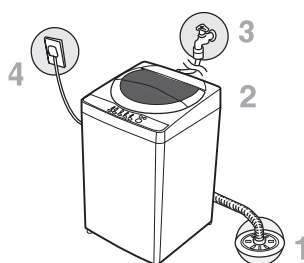
- ※ Depending on the kind of detergents, amount of water by one spoonful changes. Adjust the detergent volume according to the particular detergent in use.





# HOW TO OPERATE

## Preparation



- 1 Set drainage hose for drain.
- 2 Set the water supply hose correctly.
- 3 Turn the water faucet on.
  - Make sure that there are no signs of water leakage at water faucet or water inlet.
- 4 Connect the power plug.

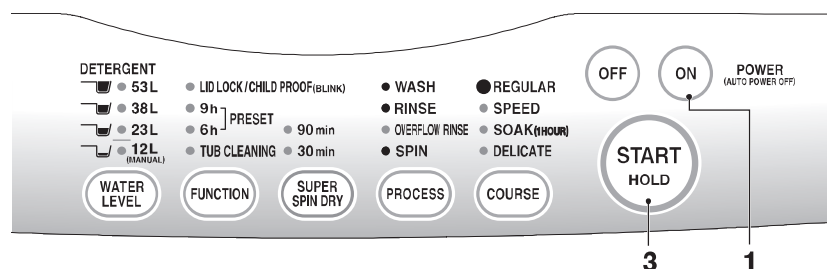
Before installing the washing machine.

- 1 Make sure to attach the bottom cover. (See more details in page 15)
- 2 Make sure that the ground connect to socket outlet properly.

## COURSE

### REGULAR course

Normal clothes can be washed through the optimum courses from washing to spinning.



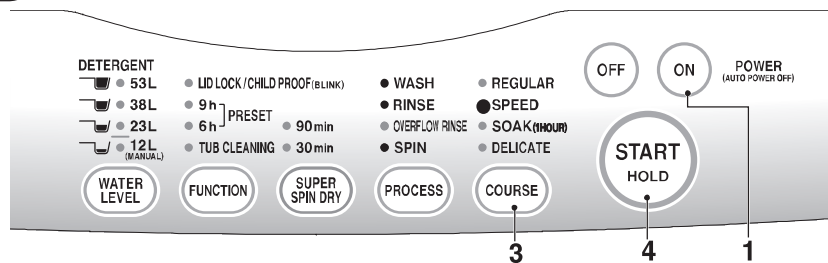
### “REGULAR” course

Water level, water current and time are automatically selected according to the amount of laundry detected automatically. Put the laundry evenly and firmly. If it is not, a lower or higher water level may be set.

- 1 Turn the power **ON**.
    - The washing machine will be lighted up at “REGULAR” course and “WASH/RINSE/SPIN” process automatically.
  - CONDENSED BUBBLE
    - The “CONDENSED BUBBLE” is set automatically.
    - The washing machine starts flowing water at the low level to absorb the concentrated detergent into the laundry in order to remove the dirt efficiently.
  - 2 Put the laundry in the basket.
  - 3 Press the **START HOLD** button.
    - The pulsator automatically detects the amount of laundry, Then indicator will be show the amount of concentrated detergent and water level suitable for the laundry amount.
    - You can select water level as your desire.
  - 4 Put in the detergent bleach and softener according to the guide in page 13.
  - 5 Close the lid.
    - If the lid is open during the operation, the washing machine will stop during washing and the buzzer sound will be heard.
- At the end of cycle
- A “beeping” sound will be heard when the operation is finished.
  - The power will turn off automatically.
  - Close the faucet and clean the cassette filter.

# HOW TO OPERATE

## "SPEED" course



## "SPEED" course

It is especially for light soiled clothes. It washes with regular water current mode and shorter washing time.

- SOFTENER CANNOT BE USED.
- This course is recommended for water saving wash.

1 Turn the power **ON**.

### CONDENSED BUBBLE

- The "CONDENSED BUBBLE" is set automatically.
- The washing machine starts flowing water at the low level to absorb the concentrated detergent into the laundry in order to remove the dirt efficiently.

2 Put the laundry in the basket.

3 Press the **COURSE** button then select program "SPEED".

4 Press the **START/HOLD** button.

- The pulsator automatically detects the laundry amount. Then indicator will be show the amount of concentrated detergent and water level suitable for the laundry amount.
- You can select water level as your desire.

5 Put in the detergent bleach according to the guide in page 13.

6 Close the lid.

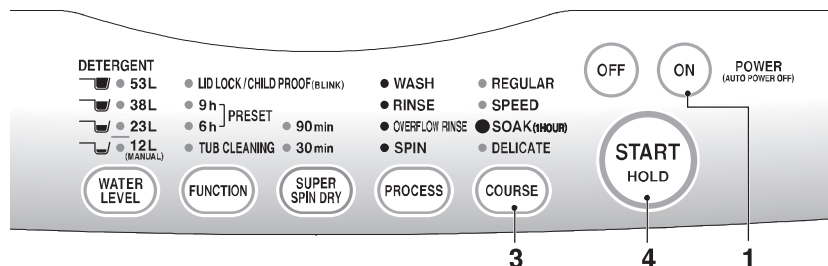
- If the lid is open during the operation, the washing machine will stop during washing and the buzzer sound will be heard.

At the end of cycle

- A "beeping" sound will be heard when the operation is finished.
- The power will turn off automatically.
- Close the faucet and clean the cassette filter.

## "SOAK" course

When washing seriously dirty clothes and expecting to prevent them from turning yellow.



## "SOAK" course

This method is used to wash clothing which easily absorbs stains and clothes with noticeable stains such as underwear and shirts as well as seriously dirty overalls, gym suits and thick socks.

- The time requirement is 1 hour.
- Rinsing was setting to "OVERFLOW RINSE". When you press **PROCESS** once "OVERFLOW RINSE" will be canceled.

1 Turn the power **ON**.

### CONDENSED BUBBLE

- The "CONDENSED BUBBLE" is set automatically.
- The washing machine starts flowing water at the low level to absorb the concentrated detergent into the laundry in order to remove the dirt efficiently.

2 Put the laundry in the basket.

3 Press the **COURSE** button then select program "SOAK".

4 Press the **START/HOLD** button.

- The pulsator automatically detects the laundry amount. Then indicator will be show the amount of concentrated detergent and water level suitable for the laundry amount.
- You can select water level as your desire.

5 Put in the detergent bleach and softener according to the guide in page 13.

6 Close the lid.

- If the lid is open during the operation, the washing machine will stop during washing and the buzzer sound will be heard.

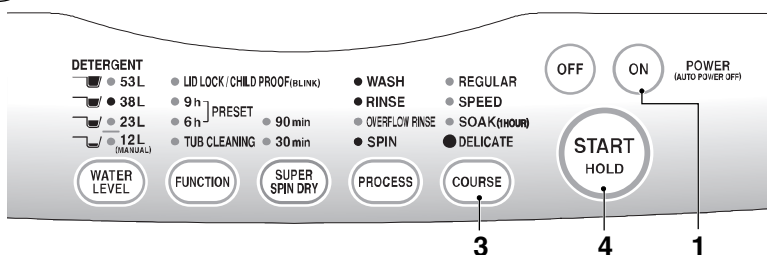
At the end of cycle

- A "beeping" sound will be heard when the operation is finished.
- The power will turn off automatically.
- Close the faucet and clean the cassette filter.

# HOW TO OPERATE

## "DELICATE" course

When you need to wash clothes softly.



## "DELICATE" course

This course is for delicate clothes such as blouses or lingerie to wash gently with very mild water flow.

(Water level will be set at 38 L.)

Clothes weight: 1.5 kg or less.

1 Turn the power **ON**.

### CONDENSED BUBBLE

- The "CONDENSED BUBBLE" is set automatically.
- The washing machine starts flowing water at the low level to absorb the concentrated detergent into the laundry in order to remove the dirt efficiently.

2 Put the laundry in the basket.

3 Press the **COURSE** button then select program "DELICATE".

4 Press the **START HOLD** button.

- The water level will be indicated automatically at 38L (water level cannot be changed to other selection.)

5 Put in the detergent bleach and softener according to the guide in page 13.

6 Close the lid.

- If the lid is open during the operation, the washing machine will stop during washing and the buzzer sound will be heard.

At the end of cycle

- A "beeping" sound will be heard when the operation is finished.
- The power will turn off automatically.
- Close the faucet and clean the cassette filter.

## "WASHING OF BLANKET"

### Type and amount which may be washed.

King size

(228 cm x 254 cm or less)

100% synthetic fiber

type: Mayer, Tuft, Down cloth

Weight: 2.5 kg or less

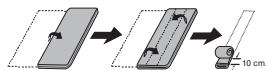
- All wool blankets and regular electric blankets should NEVER be washed.

Washable electric blankets should be washed according to the washing instruction given in the owner's manual that accompany them when purchased.

- If the blanket will not go into washing net because of fiber length of thickness, it cannot be washed.

### Folding blankets

- Remove waste or thread from blanket.
- Fold the blanket in six lengthwise.
- Fold it once again the same way.

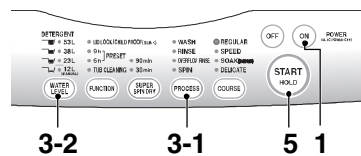


### Insert a blanket to the net

- Roll up the blanket.
- Roll the blanket up loosely except Mayer type blanket.
- Place the blanket into the blanket net hem-side first, and close the fastener.



Washing period may become longer with drainage condition.



1 Turn the POWER **ON**.

2 Put the blanket in basket.

- Place the blanket in net and put into the basket with the fastenerside on top.
- Dip a blanket in washing liquid sufficiently.

3 Set the process the water level.

3-1 Press **PROCESS** once to set to "OVERFLOW RINSE".

3-2 Press **WATER LEVEL** to set 53L water level.

4 Pour the liquid detergent 35 mL into the detergent/bleach dispenser in the basket.

5 Press the **START HOLD** button.

6 Close the lid.

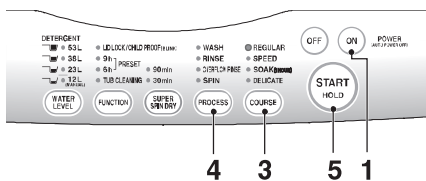
- If the lid open during the operation, the washing machine will stop during washing and the buzzer sound will be heard.

### Take the blanket out after washing completed.

- Open the blanket net fastener and put at the center of the blanket. Then take out the blanket from net.

# PROCESS

## CUSTOM WASH CYCLES



You can select the operation that you want such as spin only or rinsed water reuse.

### “OVERFLOW RINSE” cycle

OVERFLOW RINSE cycle compared to normal Rinsing, is one rinse more (total 3 times) and last rinse becomes overflow rinse.

- You can select “OVERFLOW RINSE” in “REGULAR” and “SOAK” course only.

The process cannot be changed after pressing the **START/HOLD** button.

Turn the POWER **OFF** and **ON** button in order to change course.

1 Turn the POWER **ON**.

2 Put the laundry in the basket.

3 Press the **COARSE** button to select the program as your desired.

4 Press the **PROCESS** button to select the process as below.

Regular washing	WASH RINSE SPIN	<b>PROCESS</b>	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Rinsing perfectly at the regular washing cycle. At the RINSE cycle, the water is automatically added.	WASH RINSE OVERFLOW RINSE SPIN	<b>PROCESS</b> Press once	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Re-using washed water. Melting a detergent	WASH only	<b>PROCESS</b> Press twice	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Performing rinse only for articles which have been washed. (Spinning will start before rinsing.)	RINSE only	<b>PROCESS</b> Press 3 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Rinsing the washed clothes perfectly. (Spinning will start before rinsing.)	RINSE OVERFLOW RINSE	<b>PROCESS</b> Press 4 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Spin only for handwashed articles. (Draining before spinning.)	SPIN only	<b>PROCESS</b> Press 5 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Draining water from the basket.	DRAIN only		

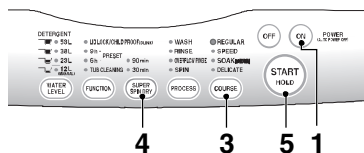
Removing clothes without spinning to prevent wrinkling, or reusing the softener.	WASH RINSE	<b>PROCESS</b> Press 6 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Washing the easily wrinkled clothes without spinning. Reusing the softener.	WASH RINSE OVERFLOW RINSE	<b>PROCESS</b> Press 7 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Washing clothes with different soil separately and spinning.	WASH SPIN	<b>PROCESS</b> Press 8 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Performing rinse which have only been washed. (Spinning will start before rinsing.)	RINSE SPIN	<b>PROCESS</b> Press 9 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>
Rinsing perfectly and spinning only. (Spinning will start before rinsing.)	RINSE OVERFLOW RINSE SPIN	<b>PROCESS</b> Press 10 times	<ul style="list-style-type: none"> <li>WASH</li> <li>RINSE</li> <li>OVERFLOW RINSE</li> <li>SPIN</li> </ul>

5 Press the **START/HOLD** button.

6 Close the lid.

- to use drain only, leave the lid open. After error indicates, turn the power **OFF** button.

## SUPER SPIN DRY



### The amount of laundry/once of spin

Clothes weight : Less than 3.6 kg

### Setting time for spinning

- You can manually set the time of spinning according to the following guide:  
90 min : to shorten hanging dry time of 3.6 kg or less laundry.  
30 min : to shorten hanging dry time of small amount of laundry or to dry up the tub and the basket.

### The clothes which cannot be performed spin drying

- "SUPER SPIN DRY" program will use a long time to spin with high speed. Please do not spin the following clothes:
- Easily color bleeding clothes.
- Easily wrinkled clothes (e.g. blouse, 100% cottons, or shirts).
- Easily transformable clothes.
- Waterproofed clothes.

1 Turn the **POWER** ON.

2 Put the laundry in the basket.

3 Press the **COURSE** button to select the program.

- At the set of "DELICATE" and "TUB CLEANING" and operate without "SPIN" process, you cannot selected "SUPER SPIN DRY".

4 Press the **SUPER SPIN DRY** button and select the desired time.

5 Press the **START HOLD** button.

6 Put the detergent bleach and softener according to guide in page 13.

7 Close the lid.

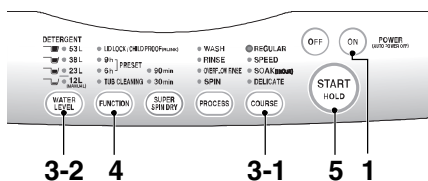
- If the lid is open during the operation, the washing machine will stop during washing and the buzzer sound will be heard.

**At the end of operation:** A "beeping" sound will be heard when the operation is finished.

- Turn off the faucet and clean the cassette filter.

## FUNCTION

### How to use PRESET mode



### TO SET/RESET FUNCTION MODE

- Turn the **POWER** OFF when you want to delete memory. If you wish to change preset time, turn the **POWER** OFF. And then set to new preset time.

### TO CONFIRM PRESET TIME

- Finished time is different between preset and actual time with water pressure and drainage condition.
- Open the lid or press the **FUNCTION** button when you want to check program, amount of detergent and water level as your selected.

1 Turn the **POWER** ON.

2 Put the laundry in the basket.

3 Select your favorite mode.

3-1 Select program press **COURSE** button.

3-2 Select water level program press **WATER LEVEL** button.

4 Press **FUNCTION** button for select preset time.

- Change 9h, 6h, TUB CLEANING (page 17) with pressing.
- Select 9 h or 6 h.

5 Press the **START HOLD** button.

- Check to turn the water faucet on.
- The indicator of "COURSE", "PROCESS" and "WATER LEVEL" are automatically light off → down about 30 seconds after press the **START HOLD** button.

6 Put the detergent, bleach and softener according to the guide in page 13.

7 Close the lid.

# SPECIAL FUNCTION

## LID LOCK

Do not open the lid while "LID LOCK/CHILD PROOF" lights up. (The lid may be damaged.)

Before the rinsing and spinning operates, the lid will be automatically locked.


When you need to cancel the lid lock.

- During operation

Press the  button to hold operation.

When "LID LOCK/CHILD PROOF" indicator lights out, the lid can be open.

- While the power is off.

Turn the power . When "LID LOCK/CHILD PROOF" indicator lights out, the lid can be open.

(When the power is turned off or shut down during operation, the lid will be automatically locked.)

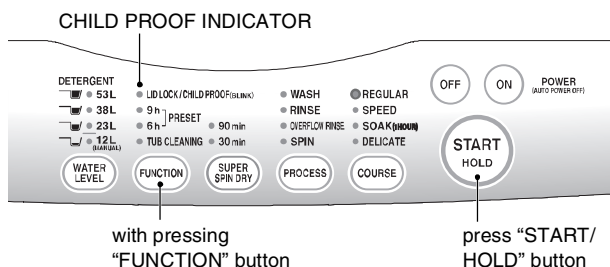
## CHILD PROOF MODE (if you have small children)

This model is equipped with CHILD PROOF mode. After this mode is set to ON, the lid is compulsory locked. **If you find accident such as falling of child into basket, please take necessary safety action urgently.**

If there is a small child who requires attention, set this mode ON.

**WARNING:** Pay attention to small children. Do not leave the washing machine filled with water. Never allow children to look into the basket or play around the washing machine. Do not place the stand or box etc. near the washing machine.

### HOW TO SET CHILD PROOF MODE





If there is small child, set this mode ON.:

if this mode is set to ON, the lid is compulsory locked.

- If the CHILD PROOF mode is set off temporary, do not forget to turn the CHILD PROOF mode ON again.
- When the lid has opened by any chance and the CHILD PROOF mode on, the washing machine will beeps the buzzer, stops water supply and wash/spin operation. If there is water in the basket, the washing machine drains water. (The buzzer keeps beeping alarming unexpected operation is happening.)
- The CHILD PROOF mode can be canceled even during the operation
- The CHILD PROOF mode is set to "OFF" when shipped out from the factory.



### TO SET/RESET CHILD PROOF MODE

TO SET CHILD PROOF MODE:

- 1 With pressing  button, after that, with pressing  button to turn the CHILD PROOF mode on.

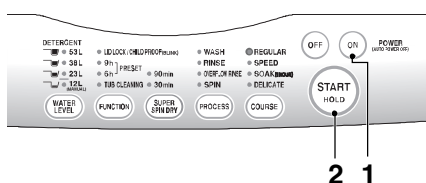
\* Buzzer beeps and the CHILD PROOF indicator will blink. (Check the indicator will blink.)

TO TURN CHILD PROOF MODE OFF:

- 2 With pressing  button, after that, with pressing  button to turn the CHILD PROOF mode off.

\* Buzzer beeps and the CHILD PROOF indicator turns off.

## RESUME FUNCTION (POWER FAILURE RECOVERY)




If a power failure occurs during operation, the washer memorizes the remaining process. After the electricity recovers, you can resume it.

- 1 Turn the POWER on.

► The process and course indicators of the remaining process will be flashing, and the buzzer sounds for 5 seconds.

- 2 Press the  button to start the remaining process.

**NOTE** • For "PRESET", if the power failure occurs before the machine starts operating, the machine will cancel the preset time. Therefore, you have to reset the time.

- Press the  button to clear the remaining process.

# OPTION MODE

## If you wish to turn off the end buzzer sound

- You can turn off the buzzer sound.



- With pressing **COURSE** button together with press power **ON** button. After buzzer beeps 3 times, the end buzzer disabled.
- As you reset, set the same way. Follow this instruction when you want to reset to enable the buzzer.

\* Once you set it, the washing machine will remember the mode set, and no need to set each time.

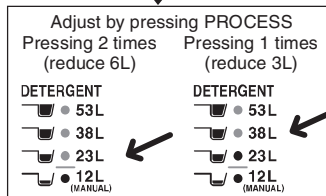
## If you feel the water amount is less or much

Water level is automatically set to suit the laundry amount. If you feel the water amount is less or much, you can adjust it by following.

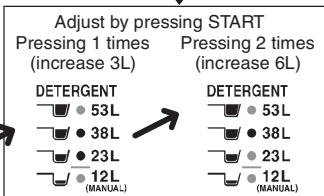


If you feel the water amount is much.

With pressing **WATER LEVEL** button together with press power **ON** button.



If you feel the water amount is less.



Turn off the POWER. (Finished adjusting)

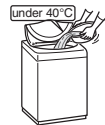
\* Set it once, it is written in memory. You don't have to set it on each laundry.

## In case of water may freeze

Drain all water from the basket, drainage hose and water supply hose after using the machine.

### If the water is frozen

- Remove the water supply hose and pour in warm water (under 40°C).
- Fill warm water (under 40°C) into the basket until the pulsator is completely covered. Leave it for 30 minutes. Then check to see whether the pulsator can be turned by hand.



## If you wish to change the shower rinse to the static rinse

**SHOWER RINSE CYCLE** means during stirring, flowing water and rinsing are executed simultaneously.



When flowing water amount is small, the basket may not be filled up.

1 Press **ON** button.

2 Press the **PROCESS** button and hold for 5 seconds.

- The buzzer sound will be heard and the course will be set within 5 seconds. After that, turn off the washer.

**NOTE** • Never press **ON** and **PROCESS** button in the same time.

- Follow this instruction for the shower rinse, and the buzzer sound will be heard.
- After the setting, the washer will keep the setting in memory. So it is not necessary to reset every time.



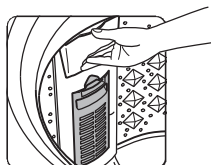
# LAUNDRY GUIDE

## When using detergent

- Put powder detergent or pour liquid detergent in the entry gate of Detergent and Bleach dispenser. Opening and closing of the Detergent and Bleach dispenser.



- Hold the groove of the entry gate with your fingers, and pull the cover out while pressing the hook.








- After putting in detergent, close the cover until "a clicking sound" is heard.

Recommend amount of detergent.

**Example**  Put 1 scoop of the detergent.

- Indicates one measuring scoop of the concentrated detergent is required.

### The estimated amount of using

Amount /scoop cup	Manual Water Level Setting	Detergent (Normal Type)		Softener	
		Powder	Liquid	Normal Type	Concentrated Type
	53L	Approx. 35g	Approx. 35mL	Approx. 35mL	Approx. 12mL
	38L	Approx. 25g	Approx. 25mL	Approx. 25mL	Approx. 8mL
	23L	Approx. 15g	Approx. 15mL	Approx. 15mL	Approx. 5mL
	12L	Approx. 11g	Approx. 11mL	Approx. 11mL	Approx. 4mL
	washing of blanket (53L)	-	Approx. 35mL	Approx. 35mL	Approx. 12mL

- The detergent amount differs with the type of detergent.
- Too much detergent causes frothily or insufficient rinse.
- The water level slightly differs according to the particular type of laundry.

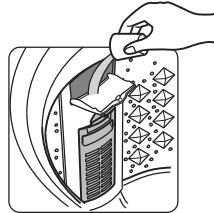
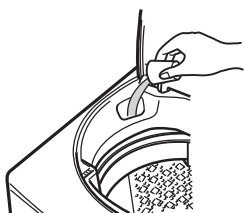
### Caution

- The detergent scoop size may vary from different manufacturers and brands.
- If there is water in the basket before starting the water level is set 53 L (Highest) without detecting the laundry amount.
- When the pulsator moves without water there may be sound coming from the clothes' buttons. Do not worry about clothing damage. If it is necessary, put delicate buttons inside of the clothes to avoid damage.
- Do not use softener in "SPEED" course.

## When using the bleach

- You can select to pour bleach into the Bleach dispenser from two places.

Pour into Bleach Dispenser Pour into Detergent Bleach Dispenser



### Caution

- Colored and dyed fabrics may lose their color if washed in bleach, so be sure to consult the instructions on the bleach container before washing.
- Do not apply chlorine bleach directly to laundry items.
- Do not allow bleach to spill on the panel plate. If you spill bleach, wipe it away.

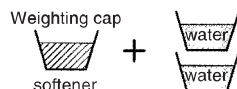
## When using softener

- Add softener to the softener case at the top of the basket.

- The softener automatically flow into the basket during the final rinse.

- The amount of softener varies with the brands. Follow the instruction on the softener label.

- If the concentrated softener is used, dilute it with water one third of its original concentration before pouring it into the insertion case.



### Caution

- You cannot see the softener poured into the dispenser while rinsing. Because it moves to the three parts in the case for using the centrifugal force at spinning.
- Softener effectiveness is reduced when OVERFLOW RINSE is used.
- Do not open the lid while spinning. The softener dispensation timing will be thrown off and effectiveness reduced.
- Do not leave softener in the softener case for long periods.

# INSTALLATION

## Installing the ground pin

- The ground pin in the plug should be connected to the proper point of the socket for grounding.

## Choosing an installation location

### Install your washing machine in a level, stable place.

- It is dangerous to place the washing machine in an unstable location, since it may move during vibration.
- It will increase the sound produced by the machine when it vibrates during use.



### Avoid place where the machine is exposed to direct sunlight.

- Plastic parts may become deformed or discolored.



### When you move washing machine, must be hold the handles on the sides. There are moving parts, electrical parts and steel plates which may cause electrical shock or injury.

- Never touch on the cabinet bottom by hands.
- Never lift at the cabinet bottom by hands.

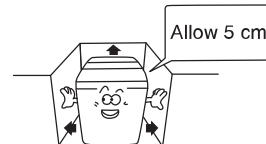


### Avoid places where the machine may become frozen during cold weather.



### Allow a space of at least 5 cm from the sides and rear of the machine to the nearest vertical object.

- When placed too near to walls or other objects, the vibration of the machine during operation may cause them to shake.



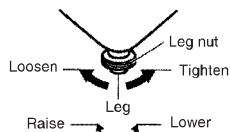
### When the machine is covered.

Do not use the cover made of chloric vinyl. Sometimes it damages plastic parts and painted surface. When you use the cover made of chloric vinyl, put the cloth between the machine and the cover.

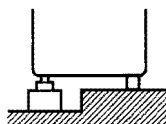
## Installation

Adjust the legs so that the body of your washing machine is level.

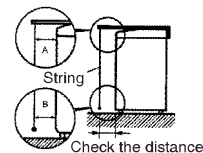
- 1 After loosening the adjusting leg nut, adjust the leg to the proper height by turning it. Then tighten the adjusting leg nut securely once again.



- 2 When the leg height is difficult to adjust because of floor slope or unevenness, place a board of sufficient thickness to prevent breakage under the affected legs to allow adjustment to a level position.



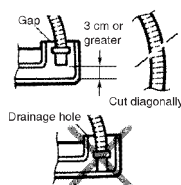
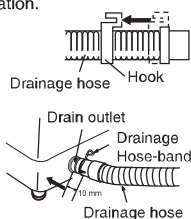
- 3 A weight attached to a string may be used to check to ensure that your washing machine is level. If show the same gap between A and B that is the horizontal level.



## Installing the drainage hose

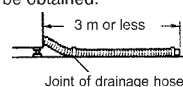
### Moving the hook

- When inserting the drainage hose into a wash pan or onto a drain pipe, the hook may be moved to facilitate the installation.
- When hooking the hose hook into the slot provided on the body of your washing machine, move the hook back to its initial position.
- Insert the drainage hose in as far as it will go, then use the accessory hose band to secure it tightly.
- Secure the Drainage hose tightly. An improperly secured hose may cause leakage.
- Lock hose band distance to cabinet about 10 mm as figure.
- When attaching the drainage hose to a wash pan, etc., either leave a gap between the end of the hose and the adjacent surface, or cut the hose diagonally to ensure proper drainage.



### Drainage hose extension

- Pay close attention to the height of the drainage hose and articles over which it passes. If the drainage hose is too high, proper drainage may not be obtained.
- The length of the drainage hose may be extended to as much as 3 m if kept the same level.
- If you need to extend, please check water leakage.

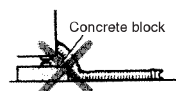


### Caution:

- If the level of the threshold and the drainage hose is high, the washing machine may not be drained.



- Be careful not to rub the drainage hose. Do not insert the drainage hose under the washing machine. They may be damaged the drainage hose.



# INSTALLATION

## Attaching the water supply hose to the faucet

If you attach the water supply hose completely, it may cause a water leakage.

### Faucet shape

Wall-mounted shaped



Wall-mounted faucets are best

Square faucet



The distance is needed  
1.6 cm or more

Movable faucet



Multi-home faucet



### Attaching the hose union

**1** Push the lock lever of the water supply hose. Pulling the sleeve down, lower the entire hose to disconnect the hose union.

**2** Check the diameter of the faucet. When the faucet mouth is large, loose the screws and remove the inside ring to facilitate attachment.

**3** Loose 4 screws of the hose union, push the hose union to the water faucet.

**4** Tighten the four screws evenly around the faucet. In this time check the gap is approx. 4 mm between the nozzle and the ring.

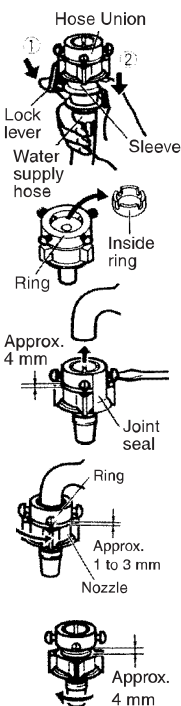
**5** Remove the seal from the union and turn to the arrow destination the nozzle to tighten securely.

**6** Check the gap is approx. 1 to 3 mm between the nozzle and the ring.

- If the gap is wide, it may cause the water leak.
- If it cause the water leakage during operation, tighten the nozzle more securely.

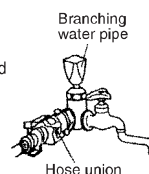
### Caution

- If you attach the hose union again because of moving house etc., loose the gap is approx. 4 mm between the nozzle and the ring. Then attach it according above methods. They are preventable the water leakage.



### Caution

- The new inlet hose supplied with the appliance are to be used and that old inlet hose should not be reused.
- If the faucets are not suited, please contact your dealer.
- Do not connect the hot water supplying convenience.
- In order to provide a permanent source of water for your washing machine, it is suggested that a branching water pipe (available separately) be used.



### Connecting the water supply hose

**1** Pull the sleeve down, then insert the water supply hose.

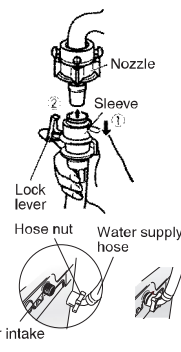
**2** Separate the sleeve until a click is heard, then push it up.

**3** Check to ensure that the lock lever is hung on the nozzle. Next, check to ensure that the water supply hose does not come off by pulling down on it.

**4** Tighten the hose nut on the end of the water supply hose securely to the water intake valve.

### Caution

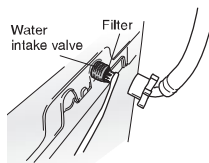
- Check to ensure that the water supply hose is properly installed by turning the water on and checking for leakage. If there is leakage, connect it from the first.
- If you remove the water supply hose after supplying water, water may splash. Refer to the following — "Removing the water supply hose".



## If the filling water becomes not good

The water inlet may be blocked by foreign objects. Remove the water supply hose and clean the filter with a brush.

- If you remove the water supply hose carelessly, water may splash. Therefore, use the following procedure.



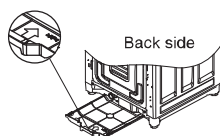
### Removing the water supply hose

- 1 Turn the water faucet off.
- 2 Turn the power **ON** and press the **START/PAUSE** button.
- 3 After indicating the water level, turn the power **OFF**.
- 4 Loosen the hose nut and remove it.

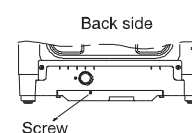


## Installing the bottom cover

**1** Push the Bottom cover into the washing machine bottom from the backside.



**2** Tighten screw at one position.



# MAINTENANCE

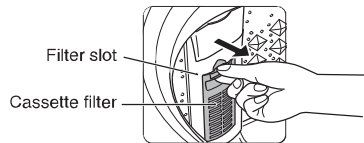
## Cassette filter

Clean the cassette filter at the end of operation.

### Cassette filter

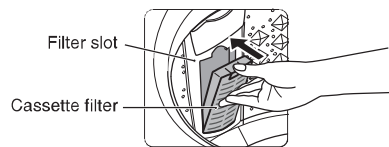
#### How to remove

- Hold the upper side of the cassette filter by fit the bottom side.
- Push down and pull it towards you.



#### How to set in

- Hold the upper side of the cassette filter by fit the bottom side.
- Push it until a "click" sound is heard.

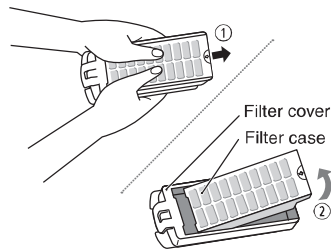


### Filter cover and Filter case

#### How to remove

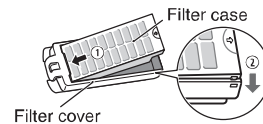
Turn over the filter, and then slide the filter case in the arrow direction of the following figure (①) to remove it (②).

Clean inside the filter cover and the filter case.

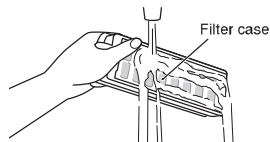


#### How to set in

- ① Set the filter case to the filter cover as follows.
- ② Press down the filter cover case until a "click" sound is heard.



- ✂ When it is difficult to remove the filter case due to lint attached, wet it with water to soften the lint.



## Detergent and Bleach dispenser

Wipe or Wash out any remaining detergent.

If there is any remaining detergent hard to be removed, use the "TUB CLEANING" course.

- Before put detergent or bleach in the detergent and bleach dispenser, remove water in its inlet. With any remaining water, detergent may be hardened and attached.

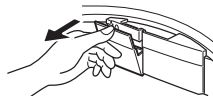


## Softener case

Remove and clean after every ten usages.

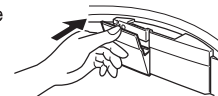
How to remove Fit the bottom side.

- 1 Hold the upper side of softener case by fit the bottom side.
- 2 Push down and pull it towards you.



How to set in Fit the bottom side.

- 1 Hold the upper side of softener case by fit the bottom side.
- 2 Push its until a "click" sound is heard.



#### Caution

- Water in the case may freeze in cold weather. If this occurs, remove the case, immerse in warm water (less than 40°C) for 10 minutes, and replace after dried well.

# MAINTENANCE

## Cleaning the tub

### “TUB CLEANING” course

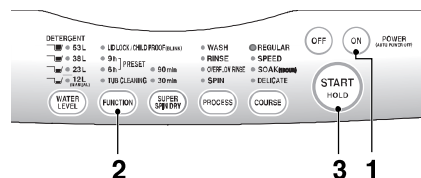
The dirt from clothes or wastewater on the basket will cause the smell or the problem of water draining. Such dirt from the washing process will then make the laundry dirty. If you are in such case, **please use “TUB CLEANING” program twice a month.** Or in case the clothes have been starched, please use the “TUB CLEANING” program to remove the dirt of the starch from the basket.

### ■ “TUB CLEANING” Process

Water Intake/Stir (※1)	about 5 min
Soak	about 20 min
Wash	about 3 min
Drain/Spin (※2)	about 4 min
Water Intake/Stir (※1)	about 5 min
Rinse	about 3 min
Drain and spin (※2)	about 1 min

- ※ 1 The pulsator stir while the water level increases gradually.
- ※ 2 The water spins while draining out.

- Do not use “TUB CLEANING” program continuously.



- 1 Turn the **POWER** **ON**.
- 2 Press the **FUNCTION** button and select **TUB CLEANING**.
- 3 Press the **START** button.
  - During the “TUB CLEANING” program, only the TUB CLEANING indicator will light on.
- 4 When the pulsator (spinning board) starts to stir, add the chlorine-type whitening detergent about 300 ml. to the basket.
  - Add it at the first used water.
  - Do not put any clothes in the basket during the “TUB CLEANING” program.
- 5 Close the lid.
  - If the lid is opened during the operation, the operation will stop during water intake and stir.

### Finish “TUB CLEANING” process.

- Beeping when the operation is finished.

## Washing machine body and panel

**Before performing any maintenance on your washing machine, be sure to remove the electrical plug from its power source.**

The main body and panel plate may be cleaned by wiping with a soft cloth soaked in water. (Hard-to-remove dirt may be cleaned by wiping with a soft cloth soaked in a mild detergent.)

**Caution:** Never clean the body or panel plate with benzene, thinner, cleanser, or other chemical cleaners. Use of such chemicals can discolor or damage parts.

## If the stainless basket rust for external reasons

Please clean the rust by a sponge or a soft cloth with a cream cleaner.

- ※ Do not use metallic brush because the body may scratch and easily rust.



### ■ Stainless rust

The stainless basket usually prevents the rust. However, there is possible to have it. Please follow the recommendation to prevent rust.



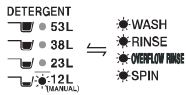


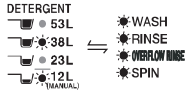

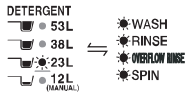
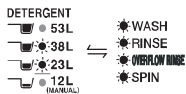


- Do not put the metallic objects into the machine, e.g. Hair clip.
- After draining the water, the rusted water will be drained. This will caused the accumulated rust inside the washing machine. Clean it again with clean water.

## BEFORE CALLING THE SERVICEMAN

WHEN	CHECK	TREATMENT
<b>does not operate</b>	<ul style="list-style-type: none"> <li>Is there a power outage?</li> <li>Is the circuit breaker or fuses cut off?</li> <li>Is the machine's plug properly inserted into an AC socket?</li> <li>Is the power switch ON?</li> </ul>	Please confirm whether a power failure or fuse breaker is cut. Then draw out power supply plug, insert once again and turn the power switch on.
<b>making noise</b>	<ul style="list-style-type: none"> <li>Is there the inclination of the laundry?</li> <li>Is your washing machine installed on an inclined or uneven surface?</li> </ul>	Please correct the inclination or non stability of laundry in the washing machine.
	<ul style="list-style-type: none"> <li>Are there match sticks, hairpins or metal objects being washed with the laundry?</li> </ul>	Remove them.
	<ul style="list-style-type: none"> <li>Is there a foreign object caught under the pulsator?</li> </ul>	Remove the center screw, lift the pulsator out and remove the foreign object.
	<ul style="list-style-type: none"> <li>Groan sounds during water supply.</li> </ul>	Water intake valve buzzes.
<b>water leak</b>	<ul style="list-style-type: none"> <li>Is the faucet shape suited?</li> </ul>	Adjust the inside ring of the hose union or change faucet shape. (Refer to p.15)
	<ul style="list-style-type: none"> <li>Are the hose coupling and the nozzle loose?</li> </ul>	Re-attaching the water supply hose. (Refer to p.15)
	<ul style="list-style-type: none"> <li>Is the water inlet nut loose?</li> <li>Is the water supply hose connector clogged?</li> </ul>	Re-attaching the water supply hose. (Refer to p.15)
<b>does not beep the end buzzer</b>	<ul style="list-style-type: none"> <li>If you turn the power  and the  button immediately, it may not beep the end buzzer.</li> <li>Is the end buzzer turned off?</li> </ul>	Reset the end buzzer sound to turn on referring to "If you wish to turn off the end buzzer sound. (p.12)"

### Error Indication List



In the case the buzzer sounds and the indicator of "WATER LEVEL" and "PROCESS" are indicated the error condition as shown below.

WHEN	CHECK	TREATMENT
	<ul style="list-style-type: none"> <li>Is the drainage hose unhooked from the washing machine?</li> <li>Is the drainage hose bent?</li> <li>Is the drainage hose laid down?</li> <li>Is the drain water frozen?</li> <li>Is the outlet of the drainage hose sunk in water?</li> <li>Is the drainage hose clogged?</li> </ul>	Open and close the lid once and then press the  button.
	<ul style="list-style-type: none"> <li>Is there not the inclination of the laundry?</li> <li>Is your washing machine installed on an incline or uneven surface?</li> </ul>	Please adjust the laundry to balance or re-install the washing machine is level on flat surface. Then close the lid.
	<ul style="list-style-type: none"> <li>Is the water faucet turned on?</li> <li>Is the water supply frozen or shut?</li> <li>Is the inlet net of the water intake valve choked with dust?</li> </ul>	Open and close the lid once and then press the  button.
	<ul style="list-style-type: none"> <li>Is the lid opened?</li> </ul>	Close the lid.
	<ul style="list-style-type: none"> <li>Is the foreign matter getting into lid lock?</li> <li>Is the lid closed completely?</li> </ul>	Turn off the  button, check the condition on lid lock. Close lid and turn on the  button.



## BEFORE CALLING THE SERVICEMAN

The following are not malfunctions.

WHEN	CHECK
The first time you use your washing machine, a small amount of water may drain out of the drainage hose.	<ul style="list-style-type: none"> <li>This is merely water left over from the performance inspection performed on your washing machine before it was shipped from the factory.</li> </ul>
During operation the control panel gets warm.	<ul style="list-style-type: none"> <li>Because of the electronic parts radiate heat.</li> </ul>
The pulsator rotates bit by bit.	<ul style="list-style-type: none"> <li>Because of preventing the laundry unbalancing, it rotates bit by bit.</li> </ul>
During washing and rinsing, lamps flickers.	<ul style="list-style-type: none"> <li>It is the cause of the power source wiring in a house. If fluorescence light be changed, it may improve condition.</li> </ul>
During spinning, suddenly supplying the water or rinsing.	<ul style="list-style-type: none"> <li>Because load unbalance occurred and safety switch operated. The spin will cycle resume after supplying water, rotating and correcting the unbalanced load.</li> </ul>
Sloshing sounds of remaining water coming from your washing machine after SPIN cycle has been completed.	<ul style="list-style-type: none"> <li>They are made by water retained by the machine for the purpose of maintaining balance and do not indicate malfunction.</li> </ul>
Spin extraction is not enough.	<ul style="list-style-type: none"> <li>Spinning rate of fully automatic washing machine is lower than that of twin tub washing machine. Sometimes spinning is uneven like thick parts of blanket.</li> </ul>
After pausing the machine during the spin cycle, it will not start immediately.	<ul style="list-style-type: none"> <li>There are a short pause before the machine begins to spin as the drainage valve opens sufficiently.</li> </ul>
If operates the machine at spinning on and off.	<ul style="list-style-type: none"> <li>You may hear intermittent motor sound ("coon" sound) in spinning process occurs, this is a sound which occurs in order to control rotation, and not a malfunction.</li> </ul>
After water supply shut off or water with iron rust appears.	<ul style="list-style-type: none"> <li>Wait for water becomes clean. Returning type bleach can be used (hydrohiter etc.) when iron rust adhered to the white colored clothes. Avoid using the bleach for colored articles.</li> </ul>
The lid does not open even if in the washing and holding of operation.	<ul style="list-style-type: none"> <li>If the CHILD PROOF mode is set to ON, the lid is compulsorily locked. Check the indicator, when the CHILD PROOF mode is turning on, the CHILD PROOF mode is turned off by pressing  button and hold. Then press the  button.</li> </ul>

## HANDLING METHOD FOR EMERGENCY

When the machine takes on abnormal operation, please disconnect the plug and send it to our service agency for handling. Never disassemble the machine by yourself for safety reasons.

## SPECIFICATIONS

Type	Fully automatic washer	Rated period of operation	Regular cycle 52 min.
Overall dimension	555 (Width) x 590 (Depth) x 905 (Height)	Standard amount of water	53L high water level
Weight	27 kg	Standard water consumption	115L
Water tap pressure	0.03~1MPa	Rated capacity	7.2 kg Dry clothes weight



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